



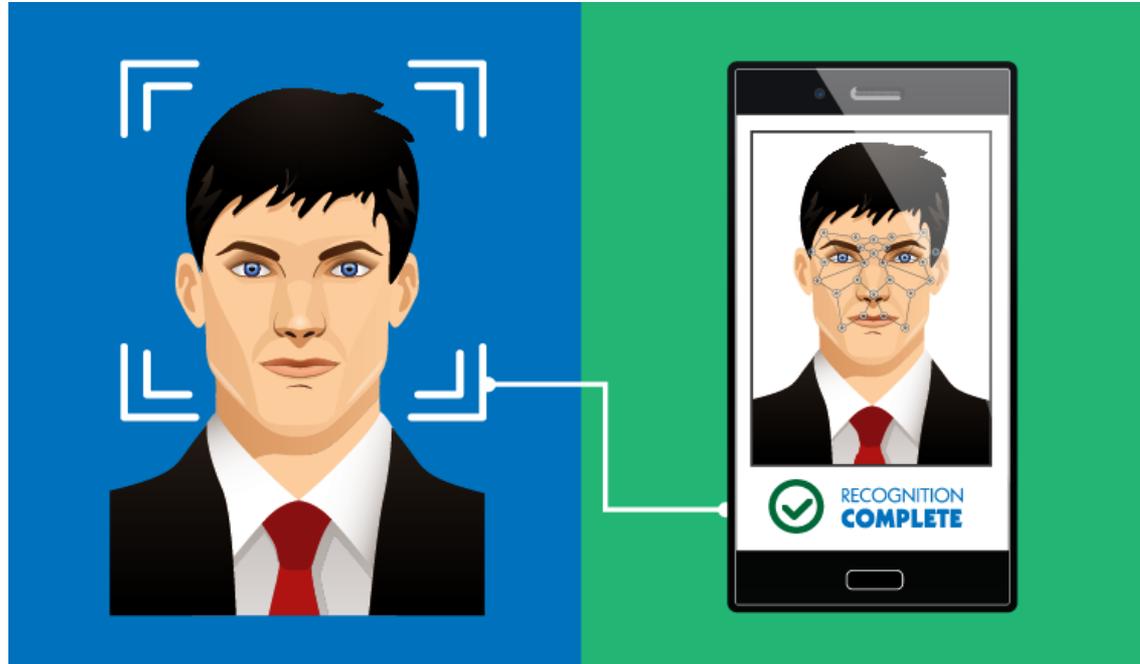
Australian Government
Department of Home Affairs

Mobile Devices and Identity and Facial Recognition





What do you see?
Eiffel Tower



What do you see?

Secure Authenticated Portrait

Passive vs Active

Source Document/Data
Live Facial Image

International Standard
Capture Once, Use Many

USER EXPERIENCE

What does mobile authentication mean for organisations?

Fundamentally its about expectations verses reality.

Selfie is a selfie...

But its not ... we are wanting a secure, authenticated portrait.

Business Benefits:

- Data integrity – biographic/ transliteration
 - Document – trusted source/ identity document
 - Biometric anchor – typhoid Mary
 - Risk mitigation – focus resources
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- Mobile technology is the enabler
 - Capability in hands of user

It is crucial that organisations understand the limitations of the technology to maximise the business benefits and develop a fit for purpose product

- E.g. offshore visa application using smartphone

Australian ETA App Pilot

The Australian ETA app introduces an additional channel for Electronic Travel Authority applications. The pilot will evaluate new technologies, featuring biometric capture, cross-validation and auto-population of biographic data from the ePassport. The pilot is designed to assess:

- App solution development
- Differences between mobile devices
 - Apple vs Android
 - Camera image quality and capture
 - NFC capability
- Integration with existing and new systems

The key outcome of app is to improve data integrity and capture biometrics (achieved through passport scan and read)

A critical part to the end-to-end solution is facial biometrics (through image capture, liveness and verification)

ePassport

Proves the identification of the traveller

- The document validation comprises an inter action of:
 - OCR (security features);
 - NFC (DG2 – full biographics & biometrics); and
 - Trust chain
- Cross validation to prevent fraud
 - MRZ vs DG1 (checksum)
 - VIZ vs DG2
 - PKD (PA & AA)

Portrait

- The secure portrait comprises an interaction and linkage of:
 - image capture,
 - image quality assessment,
 - anti-spoofing, and
 - biometric verification.
- The same image is used throughout which requires correct integration.

Summary

Easy right ? Not so much – but still very achievable.

- technology
- user

Remember you are dealing with people from all walks of life

- Habitual and infrequent users
- IT and non-IT literate
- Smart phone savvy and those that use it purely as a phone
- Not all phones are created equal

User experience is everything. If that fails, everything fails.

Trials, pilots and research.

Thank you

Any questions ?

Contact details:

Bill.Perry@homeaffairs.gov.au

Stacy.Oerder@homeaffairs.gov.au